

- Fig. 1, 2: *Pieris pseudorapae balcana* LORKOVIC, 1970, of ups and uns, gen. vern., /Makedonia, Klis. Treska, 18.IV.1938/147/ Pieris balcana sp. n. Holotypus of //Holotypus of , *Pieris pseudorapae balcana* LORKOVIC, 1968//Abgebildet in EITSCHBERGER (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 459, Abb. 29, 30/. EMEM.
- Fig. 3, 4: *Pieris pseudorapae balcana* LORKOVIC, 1970, ♀ ups and uns, gen. vern., /Makedonia, Klis. Treska, 18.IV.1938// Allotypus ♀, *Pieris pseudorapae balcana* LORKOVIC, 1968//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 459, Abb. 27, 28/. EMEM.
- Fig. 5, 6: *Pieris persis* Verity, 1922, ♂ ups and uns, gen. vern., 7.4.1978 (b), Iran, Kurdistan, Zagros-Gebirge, Prov. Kermanschah, Kerend, 1800 m, leg. BACK & REISSINGER. EMEM.
- Fig. 7, 8: *Pieris persis* Verity, 1922, ♀ ups and uns, gen. vern., 7.4.1978 (b), Iran, Kurdistan, Zagros-Gebirge, Prov. Kermanschah, Kerend, 1800 m, leg. Back & Reissinger. EMEM.
- Fig. 9, 10: *Pieris pseudorapae pseudorapae* Verity, 1908, & ups and uns, gen. vern., /Libanon, Feitroun, nordöstlich Beirut, 1200 m, 4.4.-15.4.1968, leg. Dietgens//GP 1093//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 445, Abb. 9, 10/. EMEM.

- Fig. 11, 12: *Pieris pseudorapae pseudorapae* Verity, 1908, ♀ ups and uns, gen. vern., /Libanon, Feitroun, nordöstlich Beirut, 1200 m, 4.4.-15.4.1968, leg. Dietgens//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 445, Abb. 11, 12/. EMEM.
- Fig. 13, 14: *Pieris pseudorapae mazanderana* Eitschberger, 1986, of ups and uns, gen. vern., /22.4.1979, Iran sept., Prov. Mazanderan, Elburs sept. or., Muh. Reza Pahlevi Nat. Park, 700 m, leg. Back & Reissinger//Holotypus *Pieris pseudorapae mazanderana* Eitschberger, 1986, Atalanta 17 (1986)//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 459, Abb. 11, 12/. EMEM.
- Fig. 15, 16: *Pieris pseudorapae mazanderana* Eitschberger, 1986, of ups and uns, gen. vern., /21.4.1978, Iran sept., Prov. Mazanderan, Elburs sept., 120-250 m, Umg. Schazeid, (30 k-35 km südl. Amol), leg. Back & Reissinger// Paratypus *Pieris pseudorapae mazanderana* Eitschberger, 1986, Atalanta 17 (1986)//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 459, Abb. 23, 24/. EMEM.
- Fig. 17, 18: *Pieris pseudorapae balcana* Lorkovic, 1970, ♂ ups and uns, gen. aest., /Jugosl. Macedonien, Treskaschlucht, 500 m, bei Skopje, 9.7.1971, leg. Gross,/ GP 1123//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 463, Abb. 112/. EMEM.

- Fig. 1, 2: *Pieris pseudorapae balcana* Lorkovic, 1970, ♀ ups and uns, gen. aest., Jug. Macedonia, SoPotniko bei Bitola, 7.VIII.1979, J. REICHEL leg. EMEM.
- Fig. 3, 4: *Pieris persis* Verity, 1922, ♂ ups and uns, gen. aest., Iran, Prov. Kurdestan, Hoseyn Abad, 1500 m, 30.VII.1975, leg. W. L. Blom. EMEM.
- Fig. 5, 6: *Pieris persis* Verity, 1922, ♀ ups and uns, gen. aest., Iran, Prov. Kurdestan, Hoseyn Abad, 1500 m, 30.VII.1975, leg. W. L. Blom. EMEM.
- Fig. 7, 8: *Pieris pseudorapae pseudorapae* Verity, 1908, ♂ ups and uns, gen. aest., /Libanongebirge, Dj. Barouk, 1700-1900 m, Zedern von Maasser, 30 km südöstl. Beirut, 1.6.1969, leg. Gross//GP 1102///Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 445, Abb. 31, 32/. EMEM.
- Fig. 9, 10: *Pieris pseudorapae pseudorapae* VERITY, 1908, ♀ ups and uns, gen. aest., /Libanongebirge, oberh. Faitroun, 1250 m, 25 km nordöstl. Beirut, 10.6.1969, leg. GRoss. EMEM.
- Fig. 11-14: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, o'o' ups and uns, gen. vern., Armenia, Kotayk, ca. 37 km N Yerevan, Aghveran, 40°31′09"N 44°33′47"E, 1800-2200 m, 16.06.2011, leg. Grieshuber. EMEM.
- Fig. 15, 16: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. vern., Armenia, Kotayk, Aghveran, 1800 m, 24.05.2006, leg. Andreyev S. EMEM.
- Fig. 17, 18: *Pieris persis* Verity, 1922, of ups and uns, gen. aest., /Türkei, Hakkari, vic. Uzümci, 1300 m, 23.8.[19]79, leg. Görgner//GP 2302// *Pieris persis* Verity, 1922, 28.V.1984, Eitschberger det./. EMEM.

Colour plate 3

- Fig. 1-4: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. vern., /Türkei, Büyükada, Prinzeninsel, IV.1969, leg. K. H. Nikodemus//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 455, Abb. 16, 17, 20, 21/. EMEM.
- Fig. 5, 6: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. vern., Muslim gölüs, Iznik gölüz, Prov. Bursa TR, 169 m, 28.3.1982, leg. G. Müller. EMEM.
- Fig. 7, 8: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. vern., Muslim gölüs, Iznik gölüz, Prov. Bursa TR, 169 m, 28.3.1982, leg. G. Müller//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 455, Abb. 9/. EMEM.
- Fig. 9, 10: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, oʻ ups and uns, gen. vern., Asia Minor, Türkei, NW-Anatolien, Prov. Bolu, Abant Gölü, 1000 m, 10.6.1980, leg. G. Müller, Marburg. EMEM.
- Fig. 11, 12: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. vern., /Asia Minor, Türkei, NW-Anatolien, Prov. Bolu, Abant Gölü, 1000 m, 7.7.1980, leg. G. Müller, Marburg//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Taf. 455, Abb. 12//Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 32, Figur 25/. EMEM.
- Fig. 13, 14: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. vern., Uludag, Tarihiçinar, 600 m, TR, 10.4.1982, leg. G. Müller. EMEM.
- Fig. 15, 16: Pieris pseudorapae suffusa Sheljuzhko, 1931, ♀ ups and uns, gen. vern., / Uludag, 600 m, Tarihiçinar, NW-Anat. Bursa, 9.4.1982, leg. G. Müller//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am Pieris napi-bryoniae-Komplex, Taf. 455, Abb. 11//Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 32, Figur 24/. EMEM.
- Fig. 17, 18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. vern., UdSSR, Westkaukasus, Abchasien, 25.V.1958, 1900 m. EMEM.

- Fig. 1, 2: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. vern., Caucasus, Suchumi, 1000 m, 23.IV.1981, V. Lukhtanov leg. EMEM.
- Fig. 3-10: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂♂, ♀♀ ups and uns, gen. vern., Nord Kaukasus, Kislovodsk vic., Podkumok, 6.-10.V.1997, P. Beda leg., EMEM, X.1997. EMEM.
- Fig. 11-14: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. vern., Aserbajdjan [Aserbeidschan], Lenkoran, vic. Alexeevka, 12.IV.1980, coll. Dantchenko. EMEM.
- Fig. 15-18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. vern., Armenia, 1800 m, Dilizhan, 19.V.1979, V. Lukhtanov leg. EMEM.

- Fig. 1, 2: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. vern., U.S.S.R., Armenia, Chosrov pres., 1500 m, 16.VI.1986, O. GORBUNOV. leg. EMEM.
- Fig. 3, 4: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. vern., Armenia, Khosrov State Reserve, 2000 m, 20.VI.-10.VII.1996, A. Dantchenko leg, EMEM Sept. 1996. EMEM.
- Fig. 5-8: *Pieris belovi* spec. nov., pupae, Armenia, Aragaz, Amberd Valley left side, 3400 m [correct is 3120 m], female coll. 15.VIII.1998, ex ovo 20.23.1998, A. Dantchenko leg., EMEM, 10.VI.2010. EMEM.

Colour plate 6

- Fig. 1-4: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. vern., U.S.S.R., Nachitchevan, Zangezur Range, Bitchemek settl., 1600 m, [♂] 22.V.1982, [♀] 30.V.1982, Gorbunov leg. EMEM.
- Fig. 5-16: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂♂, ♀♀ ups and uns, gen. vern., Armenia, Aragaz, Amberd Valley left side, 2800 m [correct is 2220 m], 8.VI.1997, A. DANTCHENKO leg., EMEM, X.1997. EMEM.
- Fig. 17, 18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, σ ups and uns, gen. aest., /Asia Minor, Türkei, Östl. Schwarzes Meer, Prov. Trabon, Trabzon Sumela-Kloster, 1400 m, 25.9.1979, leg. G. Müller, Marburg//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 455, Abb. 7/. EMEM.

Colour plate 7

- Fig. 1-2: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. aest., /Asia Minor, Türkei, Östl. Schwarzes Meer, Prov. Trabon, Trabzon Sumela-Kloster, 1400 m, 25.9.1979, leg. G. Müller, Marburg//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 455, Abb. 5/. EMEM.
- Fig. 3-6: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. aest., SO-Europa, europ. /Türkei, Marmerameer, Bosporus, Istanbul, Yesilköy beim Flughafen, 31.10.1981, leg. G. Müller, Marburg//[♀] Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 457, Abb. 12/. EMEM
- Fig. 7-14: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂♂ ups and uns, gen. aest., Nord Kaukasus, Kislovodsk vic., Podkumok, [♀ leg] 6.-10.V.1997, P. Beda leg. [cult. A. Dantchenko in Moscow, e. o. VI.1997], EMEM, X.1997. EMEM.
- Fig. 15-18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, उточ ups and uns, gen. aest., Dagestan, Gunib, 1800 m, e.o. 15.IX.1997, A. DANTCHENKO leg. EMEM.

Colour plate 8

- Fig. 1-4: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. aest., Dagestan, Gunib, 1800 m, e.o. 15.IX.1997, A. Dantchenko leg. EMEM.
- Fig. 5-8: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. aest., Tramscaucasia, Azerbaijan, Lerik vic., 1100 m, e.o. 11.-22.VI.1995, A. Dantchenko leg. et cult. EMEM.
- Fig. 9-12: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. aest., U.S.S.R. Georgia, Trialetsky mont. [range], Tzratzkharo Pass, 2350 m, 13.VIII.1986, O. Gorbunov leg. EMEM.
- Fig. 13, 14: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. aest., Georgia, Meshetskyi Mt., Atzcuri, 7.-9.VII.1987, BASIL Tuzov. EMEM.
- Fig. 15, 16: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. aest., U.S.S.R., Nachitchevan, Zangezur Range, Bitchemek settl., 1600 m, 26.V.1982, Gorbunov leg. EMEM.
- Fig. 17, 18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. aest., Armenia, Aiodzorsky range, Gnyschik vill., H. 1900-2200 m, 16.-30.7.[19]98, leg. S. A. Andreev [Andreyev]. EMEM.

- Fig. 1-4: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. aest., UdSSR, Armenia, Cachkadzor [Tzakhkadzor], 1800 m, 16.7.1985, leg. Jiri Klir. EMEM.
- Fig. 5-8: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. aest., Armenia, Khosrov Res., 2000 m, 1.-10.7.[19]96, A. Chuvilin leg. EMEM.

- Fig. 9, 10: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. aest., Armenia, Aragatz mts., 2800 [2200] m, 11.-28.07.[19]96, A. Chuvilin leg. EMEM.
- Fig. 11, 12: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. aest., Armenia, Aragatz, 11.-28.07.1996, A. Dantchenko leg., EMEM, Sept. 1996. EMEM.
- Fig. 13-16: *Pieris pseudorapae mazandarana* Eitschberger, 1986, ♂, ♀ ups and uns, gen. aest., /N-Iran, Pr. Mazandaran, ca. 30 km S Chalus, vic. Marzanabad, ca. 600 m, 21.7.1979, leg. C. Naumann, Coll. Nr. 1886, coll. Naumann// GP 1712/Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, (♂) Tafel 457, Abb. 9, 10; (♀) Tafel 459, Abb. 1, 2//Holotypus ♂ Allotypus ♀, *Pieris pseudorapae mazandarana* Eitschberger, 1986/. EMEM.
- Fig. 17, 18: Hybrid &, A. Dantchenko cult. in Moscow [*P. napi* & from Moscow City, 16.V.1997 x *P. pseudorapae suf-fusa* &, Nord Kaukasus, Kislovodsk vic., Podkumok, [& leg] 6.-10.V.1997, P. Beda leg.]. EMEM.

- Fig. 1, 2: *Pieris bowdeni* Eitschberger, 1983, & ups and uns, gen. vern., /Türkei, Agri, Asagi Kent, 2200-2400 m, 3.-5.7.[19]76, Eckweiler leg.//Holotypus &, *Pieris bowdeni* Eitschberger, 1982//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 441, Abb. 31, 32/. EMEM.
- Fig. 3, 4, 7, 8: *Pieris bowdeni* Eitschberger, 1983, PTs &, ups and uns, gen. vern., /Türkei, Agri, Asagi Kent, 2200-2400 m, 3.-5.7.[19]76, Eckweiler leg.//Paratypus &, *Pieris bowdeni* Eitschberger, 1982//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, (3, 4) Tafel 443, Abb. 15, 16; (7, 8) Tafel 443, Abb. 13, 14/. EMEM.
- Fig. 5, 6: *Pieris bowdeni* Eitschberger, 1983, Paratypus &, ups and uns, gen. vern., /Türkei, Erzurum, Palandöken Dag, 2800-3000 m, 25.VII.[19]78, leg. Eckweiler//Paratypus &, *Pieris bowdeni* Eitschberger, 1982//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 443, Abb. 21, 22// Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 32, Figur 40/. EMEM.
- Fig. 9-12, 15, 16: *Pieris bowdeni* Eitschberger, 1983, Paratypus ♀, ups and uns, gen. vern., /Türkei, Agri, Asagi Kent, 2200-2400 m, 3.-5.7.[19]76, Eckweiler leg.//(9, 10, 15, 16) Paratypus ♀, (11, 12) Holotypus ♀, *Pieris bowdeni* Eitschberger, 1982//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, (9, 10) Tafel 443, Abb. 1, 2; (11, 12) Tafel 443, Abb. 33, 34; (15, 16) Tafel 443, Abb. 35, 36//(only 11, 12) Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 32, Figur 43/. EMEM.
- Fig. 13, 14: *Pieris bowdeni* Eitschberger, 1983, Paratypus ♀, ups and uns, gen. vern., /Türkei, Erzurum, Palandöken Dag, 2800-3000 m, 25.VII.[19]78, leg. Eckweiler//Paratypus ♂, *Pieris bowdeni* Eitschberger, 1982//GP 1624/. EMEM.
- Fig. 17, 18: *Pieris belovi* spec. nov., PT ♀, ups and uns, gen. vern., Transcaucasus, Armenia, Aragatz mts., 3200 [3100] m, Alagez lake, 18.07.1996, DANTCHENKO leg. EMEM.

Colour plate 11

- Fig. 1-4, 17, 18: *Pieris belovi* spec. nov., (1, 2) holotype ♂, (3, 4) PT ♂, (17, 18) allotype ♀, ups and uns, gen. vern., Transcaucasus, Armenia, Aragatz mts., 3200 [3100] m, Alagez lake, 18.07.1996, DANTCHENKO leg. EMEM.
- Fig. 5-8: *Pieris belovi* spec. nov., PTs ♂♂, ups and uns, gen. vern., Armenia, Aragatz mts., 3200 [3100] m, Alagez lake, 24.07.[19]96 [wild caught 2 ♀♀ laid eggs, the breeded adults emerged in May 1997, DANTCHENKO leg. et cult in Moscow], DANTCHENKO leg. EMEM.
- Fig. 9-12: *Pieris belovi* spec. nov., PTs or, ups and uns, gen. vern., Armenia, Aragatz, 3000-3200 m, female col. 10.VII.1999, ex ovo 28.-30.IV.2000, A. Dantchenko leg. et cult. EMEM, 30.XII.1999. EMEM.
- Fig. 13-16: *Pieris belovi* spec. nov., PTs or, ups and uns, gen. vern., Armenia, Aragatz, Amberd valley 3400 m, left side, larva coll. 7.VIII.2008, after hibernation e.l. May 2009, A. Dantchenko leg. EMEM, 10.VI.2010. EMEM.

- Fig. 1, 2: *Pieris belovi* spec. nov., PT ♀, ups and uns, gen. vern., Armenia, Aragatz mts., 3200 [3100] m, Alagez lake, 24.07.[19]96, DANTCHENKO leg. EMEM.
- Fig. 3-6: *Pieris belovi* spec. nov., PTs ♀, ups and uns, gen. vern., Armenia, Aragatz mts., 3200 [3100] m, Alagez lake, 24.07.[19]96 [wild caught ♀ laid eggs, the breeded adults emerged in May 1997, A. Dantchenko leg. et cult. in Moscow], Dantchenko leg. EMEM.
- Fig. 7-10: *Pieris belovi* spec. nov., PTs ♀, ups and uns, gen. vern., Armenia, Aragatz, 3000-3200 m, female col. 10.VII.1999, ex ovo 28.-30.IV.2000, A. DANTCHENKO leg. et cult. EMEM, 30.XII.1999. EMEM.
- Fig. 11-14: *Pieris belovi* spec. nov., PTs ♀, ups and uns, gen. vern., Armenia, Aragatz, Amberd valley 3400 m, left side, larva coll. 7.VIII.2008, after hibernation e.l. May 2009, A. DANTCHENKO leg. EMEM, 10.VI.2010. EMEM.
- Fig. 15-18: *Pieris belovi* spec. nov., PTs ♂♂, ups and uns, gen. aest., Armenia, Aragatz, Amberd valley 3400 m, left side, larva coll. 7.VIII.2008, copula m[♂]/W[♀] hatched May 2009; F2 e.o. July 2009, A. Dantchenko lg. et cult., EMEM, 10.VI.2010. EMEM.

- Fig. 1-4: *Pieris belovi* spec. nov., PTs ♀, ups and uns, gen. aest., Armenia, Aragatz, Amberd valley 3400 m, left side, larva coll. 7.VIII.2008, copula m[♂]/W[♀] hatched May 2009; F2 e.o. July 2009, A. DANTCHENKO lg. et cult., EMEM, 10.VI.2010. EMEM.
- Fig. 5, 6: *Pieris belovi* spec. nov., PT ♂, ups and uns, gen. aest., Armenia, Aragatz, 3200 [3100] m, Alagez lake, 24.07. [19]96 [wild caught ♀ laid eggs, the breeded adults emerged in September 1996, A. Dantchenko leg. et cult in Moscow], Dantchenko leg. EMEM.
- Fig. 7-10: *Pieris belovi* spec. nov., PT ♀, ♂, ups and uns, gen. aest., Armenia, Aragatz, Amberd valley 3400 m, left side, larva coll. 7.VIII.2008, part. 2nd generation el. end VIII.2008, A. DANTCHENKO leg., EMEM, 10.VI.2010. EMEM.
- Fig. 11-18: *Pieris belovi* spec. nov., PT ♀, ♂♂, ups and uns, gen. aest., Armenia, Aragatz, Amberd valley 3400 m, left side, female coll. 15.VIII.1998, e. o. 20.-23.VIII.1998, A. DANTCHENKO leg., EMEM, 10.VI.2010. EMEM.

Colour plate 14

- Fig. 1, 2: *Pieris bryoniae goergneri* Eitschberger, 1985, HT &, ups and uns, gen. vern., /Türkei, Hakkari, Karandag-Osthang, 2900-3100 m, 2.VIII.1982, leg. Görgner, col. Nr. 143//Holotypus &, *Pieris bryoniae goergneri* Eitschberger, 1985, Typ.-Nr.//abgebildet in Atalanta Bd. 16, Tafel I, p. 258, Fig. 1//Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 31, Figur 24/. EMEM.
- Fig. 3, 4: *Pieris bryoniae goergneri* Eitschberger, 1985, PT &, ups and uns, gen. vern., / Türkei, Hakkari, Bercelem yaylasi, 2500-2800 m, 30.VII.-5.VIII.[19]78, leg. Eckweiler// Paratypus &, *Pieris bryoniae goergneri* Eitschberger, 1985, Typ.-Nr.//abgebildet in Atalanta Bd. 16, Tafel I, p. 258, Fig. 3//Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 31, Figur 20/. EMEM.
- Fig. 5, 6: *Pieris bryoniae goergneri* Eitschberger, 1985, AT ♀, ups and uns, gen. vern., /Türkei, Hakkari, Karandag-Osthang, 2900-3100 m, 2.VIII.1982, leg. Görgner, col. Nr. 143//Allotypus ♀, *Pieris bryoniae goergneri* Eitschberger, 1985, Typ.-Nr.//abgebildet in Atalanta Bd. 16, Tafel I, p. 258, Fig. 2//Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 31, Figur 36/. EMEM.
- Fig. 7, 8: Pieris bryoniae goergneri Eitschberger, 1985, PT ♀, ups and uns, gen. vern., /Türkei, Hakkari, Karandag-Osthang, 2900-3100 m, 2.VIII.1982, leg. Görgner, col. Nr. 143//Paratypus ♀, Pieris bryoniae goergneri Eitschberger, 1985, Typ.-Nr.//abgebildet in Atalanta Bd. 16, Tafel I, p. 258, Fig. 6//Abgebildet in Hesselbarth, van Oorschot & Wagener: Tagfalter der Türkei, Tafel 31, Figur 40/. EMEM.
- Fig. 9-12: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. vern., Armenia, Sevan lake, Shorza, Artanish cape, 2100 m, 22.05.2006, Andreyev S. A. leg. EMEM
- Fig. 13, 14: *Pieris bryoniae caucasica* Lorkovic, 1968, ♂, ups and uns, gen. vern., Nord-Kaukasus, Uzunkol, 2100 m, 31.VII.1984, Limonov leg. EMEM.
- Fig. 15, 16: *Pieris bryoniae caucasica* Lorkovic, 1968, ♂, ups and uns, gen. vern., USSR-Caucasus, Elbrus, 2500 m, 22.-29.7.1984, leg. J. Klir. EMEM.
- Fig. 17, 18: *Pieris bryoniae caucasica* Lorkovic, 1968, ♂, ups and uns, gen. vern., Kaukasus, Dombai, Ulgen-Tal, 23.7.1973, 2000 m, Dr. Karger. EMEM.

Colour plate 15

- Fig. 1, 2: *Pieris bryoniae caucasica* Lorkovic, 1968, ♀, ups and uns, gen. vern., U.S.S.R., W-Kaukasus, Momzyshka [Momzyshkha, Gagra vic.], (1700 m), 16.VII.1985, Sveshnikov [Jevgeni] leg. EMEM.
- Fig. 3, 4: *Pieris bryoniae caucasica* Lorkovic, 1968, ♀, ups and uns, gen. vern., Nordwestkaukasus, Teberda, 21.7.1972, Dzamagat Tal, 2000-2400 m, leg. Franz Eichler. EMEM.
- Fig. 5, 6: *Pieris bryoniae caucasica* Lorkovic, 1968, ♀, ups and uns, gen. vern., Kaukasus/SU, Mussa Atschitara See, 2800 m, 2.8.1976, Peter Salk Berlin. EMEM.
- Fig. 7-14: *Pieris bryoniae caucasica* Lorkovic, 1968, ♂♂, ♀, ups and uns, gen. vern., Georgia, 2500 m, Borzhomi region, Trialetzky range, pass Tskara-Tskaro [Tsra-Tskhara pass], 5.VII.1999, A. Dantchenko leg., EMEM, 31.XII.1999. EMEM.
- Fig. 15-18: *Pieris bryoniae caucasica* Lorkovic, 1968, ♀, ♂, ups and uns, gen. vern., Transcaucasia, Georgia, 2100-2300 m, Bakurinai env., Tsra-Tskhara pass, female coll. 2.VII.1999, ex ovo 30.IV.-11.V.2000, A. Dantchenko leg. et cult., EMEM, 30.XII.1999. EMEM.

- Fig. 1, 2: *Pieris bryoniae turcica* Eitschberger & Hesselbarth, 1977, ♂, ups and uns, gen. vern., /Asia Minor, Türkei, NW-Anatolien, Prov. Bolu, Abant Gölü, 1400 m, 13.6.1980, leg. G. Müller, Marburg. EMEM//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 435, Abb. 5, 6/. EMEM.
- Fig. 3-12: *Pieris bryoniae turcica* Eitschberger & Hesselbarth, 1977, 2 & 3 & , 3 & , ups and uns, gen. vern., TR-Bolu, 12 km n Bolu, 1800 m NN, 11.6.[19]92, Hensle leg. EMEM.
- Fig. 13, 14: Pieris bryoniae caucasica Lorkovic, 1968, &, ups and uns, gen. aest., Georgia, Borzhoni vall., Tsra-Tskhara

- pass, 2450 m, [female coll. 5.VII.1999] e. o. Anfang VIII.1999, A. Dantchenko leg. et cult., EMEM, 30.XII.1999. EMEM
- Fig. 15-18: *Pieris bryoniae caucasica* Lorkovic, 1968, ♂♂, ♀, ups and uns, gen. vern., Transcaucasia, Georgia, 2100-2300 m, Bakurinai env., Tsra-Tskhara pass, female coll. 2.VII.1999, ex ovo 30.IV.-11.V.2000, A. Dantchenko leg. et cult., EMEM, 30.XII.1999. EMEM.

- Fig. 1, 2, 15, 16: *Pieris bryoniae henslei* subspec. nov., (1, 2) HT o, (15, 16) PT Q, U.S.S.R., Armenia m., Zangezur Mt. distr., Megri-pass (2800 m), 1-VII.1986, OLEG GORBUNOV leg. EMEM.
- Fig. 3-12: *Pieris bryoniae henslei* subspec. nov., PTs 2 ♂♂, 2 ♀♀, (7, 8) AT ♀, Armenia m., Zangezur Mt. distr., Megripass (2800 m), 1-VII.1986, OLEG GORBUNOV leg. EMEM.
- Fig. 13, 14: *Pieris bryoniae henslei* subspec. nov., PT &, U.S.S.R., Armenia, Kafan distr., Chuztup mont., 2200 m, 26.VI.1982, GORBUNOV leg. EMEM.
- Fig. 17, 18: *Pieris bryoniae henslei* subspec. nov., PT ♂, Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi riv., 18.-25.VII.1999, A. Dantchenko leg., EMEM, 24.XI.2012. EMEM.

- Fig. 1, 2: *Pieris bryoniae henslei* subspec. nov., PT ♂, Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi riv., 18.-25.VII.1999, A. DANTCHENKO leg., EMEM, 24.XI.2012. EMEM.
- Fig. 3-14: *Pieris bryoniae henslei* subspec. nov., PTs 3 ♂♂, 3 ♀♀, Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi river, female collected End of July 1999, ex ovo 28.IV.-3.V.2000, A. DANTCHENKO leg. et cult., EMEM, 30.XII.1999. EMEM.
- Fig. 15-18: *Pieris bryoniae henslei* subspec. nov., PTs ♂, ♀, Armenia, Zangezur range, Kadzharan vic., 2700 [2450] m, 22.07.2005, leg. Anreyev S. A. EMEM.

Specimens for article Pieris belovi spec. nov. Pieris bryonia henslei subspec. nov.

Pieris belovi sp.n.

The specimens collected in the field or obtained from the pupae after hibernation

- 1. 31 males, 37 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 24.07.96, e.o. June 1997
- 2. 1 male, 4 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 14.07.98, e.o. 1-4.05.1999
- 3. 7 males, 12 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 10.07.99, e.o. 28-30.04.2000
- 4. 16 males, 8 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, larvae coll. August 2005, e.l. May 2006
- 5. 30 males, 14 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, larvae coll. 7.08.2008, e.l. May 2009

The specimens which should be treated as second (artificial?) generation or invaded in breeding with the food plant.

- 1. 1 males. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 24.07.96, e.o. emerg. August 1996
- 2. 2 male, 2 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 15.08.98, e.o. September 1998
- 3. 1 males. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. July 2002, e.o. August 2002
- 4. 1 male, 1 female. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, larvae coll. 7.08.2008, e.l. emerg. end August 2008

The specimens of 2 generation obtained from F2 copulating (2009)

1. 9 males, 4 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, larvae coll. 7.08.2008, e.l. emerg. May 2009, e.o. July 2009

Specimens for color plates

Pieris belovi sp.n.

1 gen.

- 1. 2 males, 6 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 24.07.96, e.o. June 1997
- 2. 2 males, 2 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 10.07.99, e.o. 28-30.04.2000
- 3. 3 males, 3 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, larvae coll. 7.08.2008, e.l. May 2009
- 4. HOLOTYPE et ALLOTYPE 1 male, 1 female. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, 24.07.96 A.Dantchenko & Andreev S. leg.

2 gen.

- 1. 1 male. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 24.07.96, e.o. emerg. August 1996
- 2. 1 male. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. July 2002, e.o. August 2002
- 3. 2 male, 2 females. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, fem. coll. 15.08.98, e.o. September 1998
- 4. 1 male, 1 female. Armenia, Aragatz mnt., Amberd vall. left side, 3000-3200m, larvae coll. 7.08.2008, e.l. emerg. end August 2008
- 8 ♂♂, 1 ♀, Armenia, Aragatz, Amberd valley 3400 m, left side, larva coll. 7.VIII.2008, copula m[♂]/W[♀] hatched May 2009; F2 e.o. July 2009, A. Dantchenko lg. et cult., EMEM, 10.VI.2010. EMEM.

Pieris bryoniae henslei subspec. nov.

Colour plate 17

HT ♂, PT 1 ♀, U.S.S.R., Armenia m., Zangezur Mt. distr., Megri-pass (2800 m), 1-VII.1986, Oleg Gorbunov leg. EMEM.

PTs 5 °C, 2 °C, AT °C, Armenia m., Zangezur Mt. distr., Megri-pass (2800 m), 1-VII.1986, OLEG GORBUNOV leg. EMEM.

- PT 1 °, U.S.S.R., Armenia, Kafan distr., Chuztup mont., 2200 m, 26.VI.1982, Gorbunov leg. EMEM.
- PT 4 °С, Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi riv., 18.-25.VII.1999, A. DANTCHEN-ко leg., EMEM, 24.XI.2012. EMEM.
- PT 1 °, Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi riv., 18.-25.VII.1999, A. DANTCHEN-ко leg., EMEM, 24.XI.2012. EMEM.
- PTs 17 ♂♂, 19 ♀♀, Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi river, female collected End of July 1999, ex ovo 28.IV.-3.V.2000, A. DANTCHENKO leg. et cult., EMEM, 30.XII.1999. EMEM.
- PTs 1 °, 1 °, Armenia, Zangezur range, Kadzharan vic., 2700 [2450] m, 22.07.2005, leg. Anreyev S. A. EMEM.

Pieris bryoniae turcica Eitschberger & Hesselbarth, 1977

- 1 d'Asia Minor, Türkei, NW-Anatolien, Prov. Bolu, Abant Gölü, 1400 m, 13.6.1980, leg. G. MÜLLER, Marburg. EMEM//Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 435, Abb. 5, 6/. EMEM.
- 6 °C, 12 °P, TR-Bolu, 12 km n Bolu, 1800 m NN, 11.6.[19]92, Hensle leg. EMEM.
- 1 9, /Türkei, 2000 m, Uludag bei den Hotels, 26.VII.1981, G. MÜLLER leg., coll. EITSCHBERGER//abgebildet in Atalanta 16, Tafel 1, p. 258, Fig. 9// Abgebildet in EITSCHBERGER (1983), Systematische Untersuchungen am *Pieris napibryoniae*-Komplex, Tafel 435, Abb. 3, 4/. EMEM.
- 1 ♂, Georgia, Borzhoni vall., Tsra-Tskhara pass, 2450 m, [female coll. 5.VII.1999] e. o. Anfang VIII.1999, A. Dant-Chenko leg. et cult., EMEM, 30.XII.1999. EMEM.
- 1 °, /Asia Minor, Türkei, N-Anatolien, Prov. Bursa, Uludag-gebirge, 2000 m, 18.6.1997, leg. G. Müller, Marburg/ abgebildet in Atalanta 16, Tafel 1, p. 258, Fig. 8// Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 435, Abb. 1, 2/. EMEM.
- 1 °, /Asia Minor, Türkei, Istanbul Ost, Kartal, NW-Anatolien, Aydos Dag Südhang, 300 m, 12.6.1981, leg. G. Müller, Marburg// Abgebildet in Eitschberger (1983), Systematische Untersuchungen am *Pieris napi-bryoniae*-Komplex, Tafel 433, Abb. 35, 36/. EMEM.
- 1 ♂, Türkei, Prov. Gümushane, 40°32'N 40°13'E, Soganli Geçidi, 2400 m, 30 km n Bayburt, 4.VII.1984 LF, leg. Werner Wolf. EMEM.
- 4 ♂♂, 5 ♀♀, [Türkei] Yedi [Göller], 1600 [m], 28.5.[19]99 [J. Fuchs leg.]. EMEM.

Pieris bryoniae caucasica Lorkovic, 1968

11 ♂♂, 18 ♀♀, Transcaucasia, Georgia, 2100-2300 m, Bakurinai env., Tsra-Tskhara pass, female coll. 2.VII.1999, ex ovo 30.IV.-11.V.2000, A. DANTCHENKO leg. et cult., EMEM, 30.XII.1999. EMEM.

Abbreviations

AT: Allotype.

EMEM: Entomologisches Museum Dr. Ulf Eitschberger, Marktleuthen, Forschungsinstitut des McGuire Center for

Lepidoptera & Biodiversity, Gainesville, Florida, U. S. A.

GP: Genitalpräparat.

gen. vern.: Generatio vernalis - 1. spring/generation.

gen. aest.: Generatio aestivalis - 2. summer/generation.

HT: Holotype. Paratype.

TD: Typusdeposition/Typenverbleib. TL: Typuslokalität/Type locality.

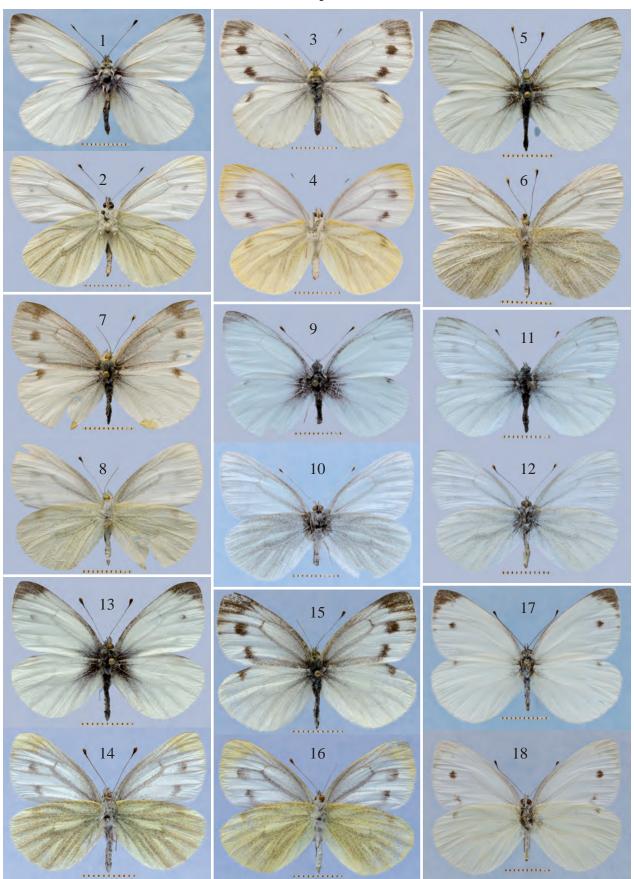


Fig. 1-4: *Pieris pseudorapae balcana* Lorkovic, 1970, (1, 2) ♂, (3, 4) ♀ ups and uns, gen. vern., Makedonia, Klis. Treska. EMEM. Fig. 5-8: *Pieris persis* Verity, 1922, (5, 6) ♂, (7, 8) ♀, ups and uns, gen. vern., 7.4.1978 (b), Iran, Kurdistan, Zagros-Gebirge. EMEM. Fig. 9-12: *Pieris pseudorapae pseudorapae* Verity, 1908, (9, 10) ♂, (11, 12) ♀ ups and uns, gen. vern., Libanon, Feitroun EMEM. Fig. 13-16: *Pieris pseudorapae mazanderana* Eitschberger, 1986, (13, 14) ♂, (15, 16) ♀ ups and uns, gen. vern., /22.4.1979, Iran sept., Prov. Mazanderan, Elburs sept. or. Abb. 17, 18: *Pieris pseudorapae balcana* Lorkovic, 1970, ♂ ups and uns, gen. aest., /Jugosl. Macedonien, Treskaschlucht. EMEM. Complete data see legend p. ??

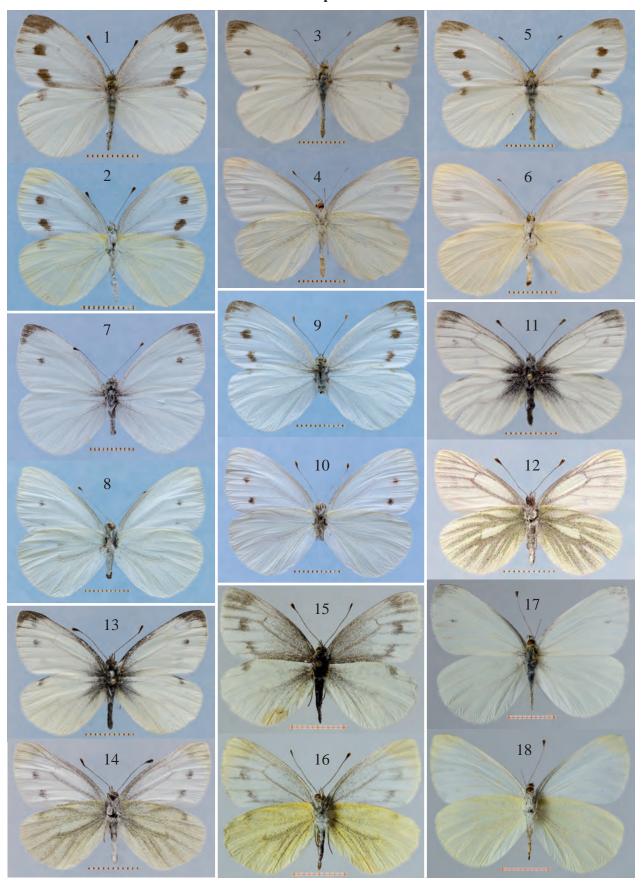
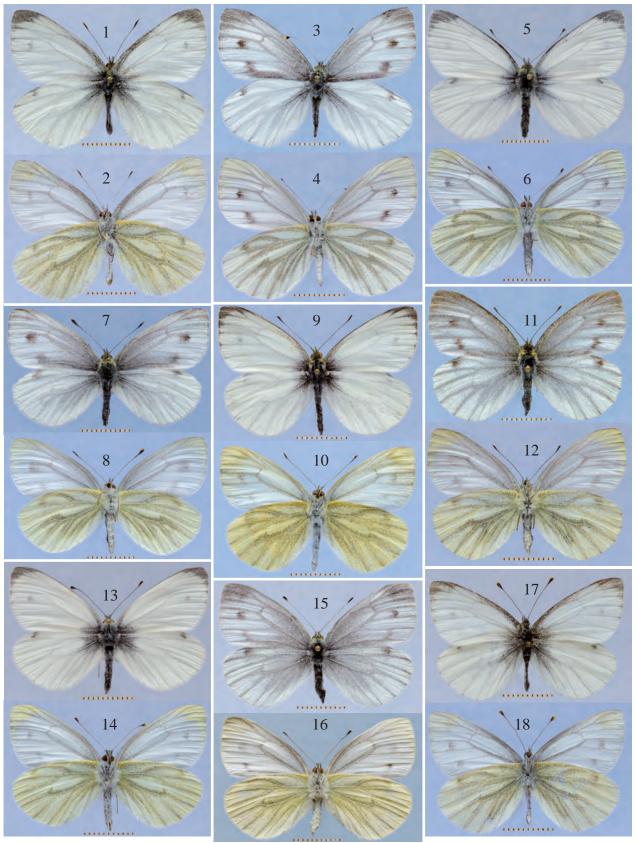


Fig. 1, 2: *Pieris pseudorapae balcana* Lorkovic, 1970, ♀♀ ups and uns, gen. aest., Jug. Macedonia, SoPotniko bei Bitola. EMEM. Fig. 3-6: *Pieris persis* Verity, 1922, (3, 4) ♂, (5, 6) ♀ ups and uns, gen. aest., Iran, Prov. Kurdestan, Hoseyn Abad. EMEM. Fig. 7-10: *Pieris pseudorapae pseudorapae* Verity, 1908, (7, 8) ♂, (9, 10) ♀ ups and uns, gen. aest., Libanongebirge. EMEM. Abb. 11-14: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, (11-14) ♂♂, (15, 16) ♀ ups and uns, gen. vern., Armenia, Kotayk. EMEM Abb. 17, 18: *Pieris persis* Verity, 1922, ♂ ups and uns, gen. aest., Türkei, Hakkari, vic. Uzümci. EMEM. Complete data see legend p. ??



- Fig. 1-18: *Pieris pseudorapae suffusa* Sheliuzhko, 1931 (Complete data see legend p. ??)
 Fig. 1-4: ♂, ♀ ups and uns, gen. vern., Türkei, Büyükada, Prinzeninsel. EMEM.
 Fig. 5, 6: ♂ ups and uns, gen. vern., Muslim gölüs, Iznik gölüz, Prov. Bursa TR. EMEM.
 Fig. 7, 8: ♀ ups and uns, gen. vern., Muslim gölüs, Iznik gölüz, Prov. Bursa TR. EMEM.
 Fig. 9, 10: ♂ ups and uns, gen. vern., Asia Minor, Türkei, NW-Anatolien, Prov. Bolu, Abant Gölü, 1000 m. EMEM.
 Fig. 11, 12: ♀ ups and uns, gen. vern., Asia Minor, Türkei, NW-Anatolien, Prov. Bolu, Abant Gölü, 1000 m. EMEM.
 Fig. 13, 14: ♂ ups and uns, gen. vern., Uludag, Tarihiçinar, 600 m, TR. EMEM.
 Fig. 15, 16: ♀ ups and uns, gen. vern., Uludag, 600 m, Tarihiçinar, NW-Anat. Bursa. EMEM.
 Fig. 17, 18: ♂ ups and uns, gen. vern., UdSSR, Westkaukasus, Abchasien, 25.V.1958, 1900 m. EMEM.

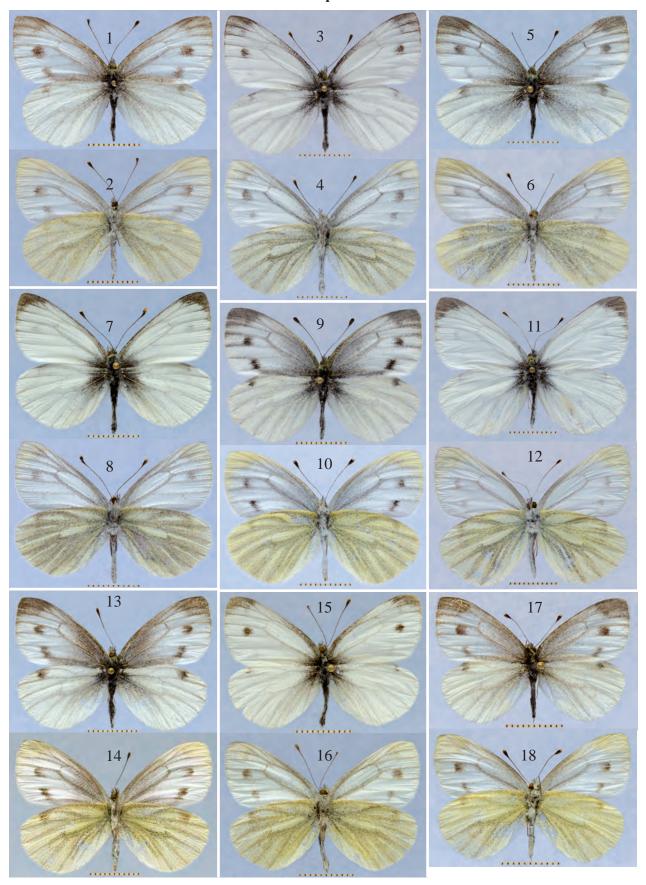


Fig. 1-18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931 (Complete data see legend p. ??)
Fig. 1, 2: ♀ ups and uns, gen. vern., Caucasus, Suchumi, 1000 m. EMEM.
Fig. 3-10: ♀ ups and uns, gen. vern., Nord Kaukasus, Kislovodsk vic., Podkumok. EMEM.
Fig. 11-14: ♂, ♀ ups and uns, gen. vern., Aserbajdjan [Aserbeidschan], Lenkoran, vic. Alexeevka. EMEM.
Fig. 15-18: ♂, ♀ ups and uns, gen. vern., Armenia, 1800 m, Dilizhan. EMEM.

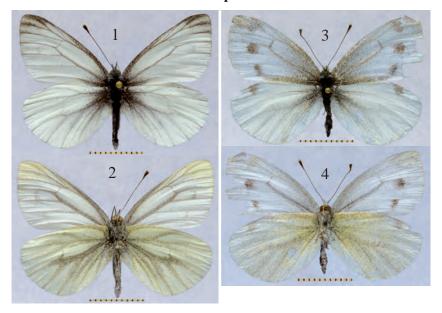


Fig. 1, 2: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♂ ups and uns, gen. vern., U.S.S.R., Armenia, Chosrov pres., 1500 m, 16.VI.1986, O. Gorbunov. leg. EMEM.

Fig. 3, 4: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, ♀ ups and uns, gen. vern., Armenia, Khosrov State Reserve, 2000 m, 20.VI.-10.VII.1996, A. Dantchenko leg, EMEM Sept. 1996. EMEM.

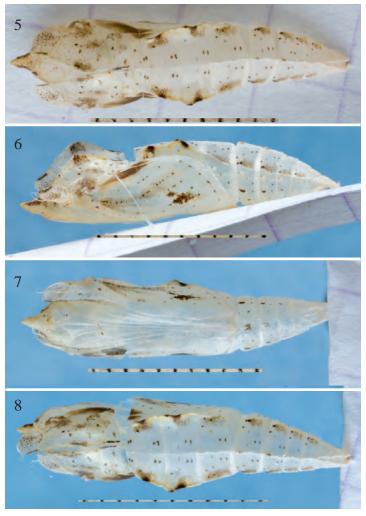


Fig. 5-8: *Pieris belovi* spec. nov., pupae, Armenia, Aragaz, Amberd Valley left side, 3400 m [correct is 3120 m], female coll. 15.VIII.1998, ex ovo 20.23.1998, A. Dantchenko leg., EMEM, 10.VI.2010. EMEM.

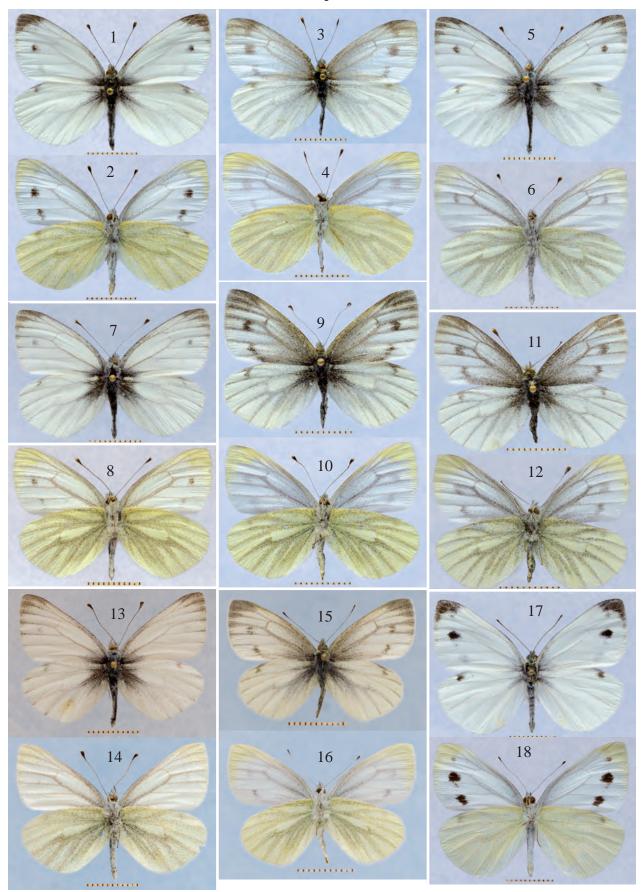


Fig. 1-18: Pieris pseudorapae suffusa Sheljuzhko, 1931 (Complete data see legend p. ??)
Fig. 1-4: ♂, ♀ ups and uns, gen. vern., U.S.S.R., Nachitchevan, Zangezur Range, Bitchemek settl., 1600 m. EMEM.
Fig. 5-16: ♂♂, ♀♀ ups and uns, gen. vern., Armenia, Aragaz, Amberd Valley left side, 2800 m [correct is 2220 m].
EMEM.

Fig. 17, 18: & ups and uns, gen. aest., Asia Minor, Türkei, Östl. Schwarzes Meer, Prov. Trabon, Trabzon Sumela-

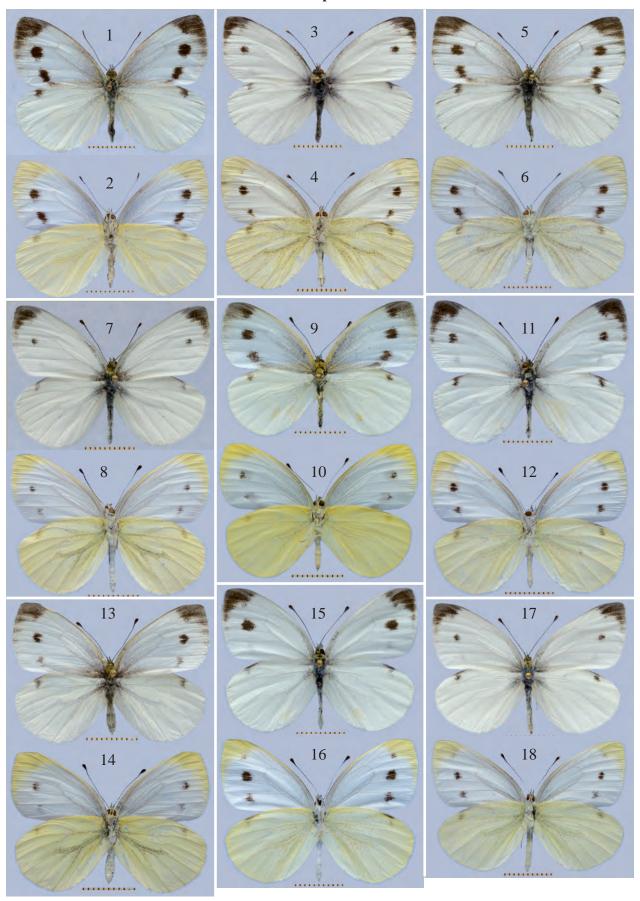


Fig. 1-18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931{Complete data see legend p. ??)
Fig. 1-2: ♀ ups and uns, gen. aest., Asia Minor, Türkei, Östl. Schwarzes Meer, Prov. Trabon, Trabzon Sumela-Kloster. EMEM. Fig. 3-6: ♂, ♀ ups and uns, gen. aest., SO-Europa, europ. Türkei, Marmerameer, Bosporus, Istanbul, Yesilköy. EMEM. Fig. 7-14: ♂♂ ups and uns, gen. aest., Nord Kaukasus, Kislovodsk vic., Podkumok. EMEM. Fig. 15-18: ♂♂ ups and uns, gen. aest., Dagestan, Gunib, 1800 m. EMEM.

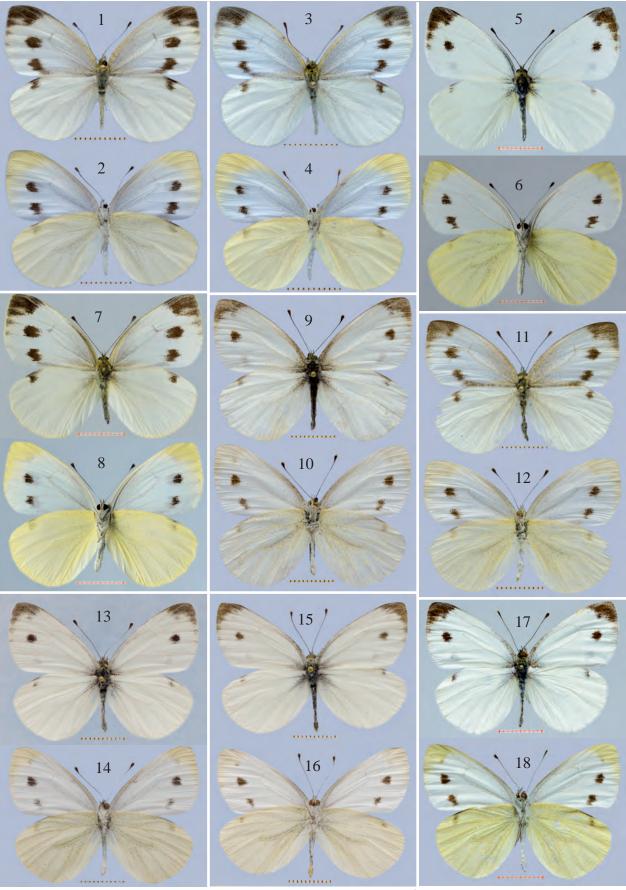


Fig. 1-18: *Pieris pseudorapae suffusa* Sheljuzhko, 1931 (Complete data see legend p. ??)
Fig. 1-4: \$\text{P}\$ ups and uns, gen. aest., Dagestan, Gunib, 1800 m, e.o. 15.IX.1997. EMEM.
Fig. 5-8: \$\tilde{\sigma}\$, \$\text{P}\$ ups and uns, gen. aest., Tramscaucasia, Azerbaijan, Lerik vic., 1100 m. EMEM.
Fig. 9-12: \$\text{P}\$ ups and uns, gen. aest., U.S.S.R. Georgia, Trialetsky mont. [range], Tzratzkharo Pass, 2350 m. EMEM.
Fig. 13, 14: \$\tilde{\sigma}\$ ups and uns, gen. aest., Georgia, Meshetskyi Mt., Atzcuri, 7.-9.VII.1987, Basil Tuzov. EMEM.
Fig. 15, 16: \$\tilde{\sigma}\$ ups and uns, gen. aest., U.S.S.R., Nachitchevan, Zangezur Range, Bitchemek settl., 1600 m. EMEM.
Fig. 17, 18: \$\tilde{\sigma}\$ ups and uns, gen. aest., Armenia, Aiodzorsky range, Gnyschik vill., H. 1900-2200 m. EMEM.

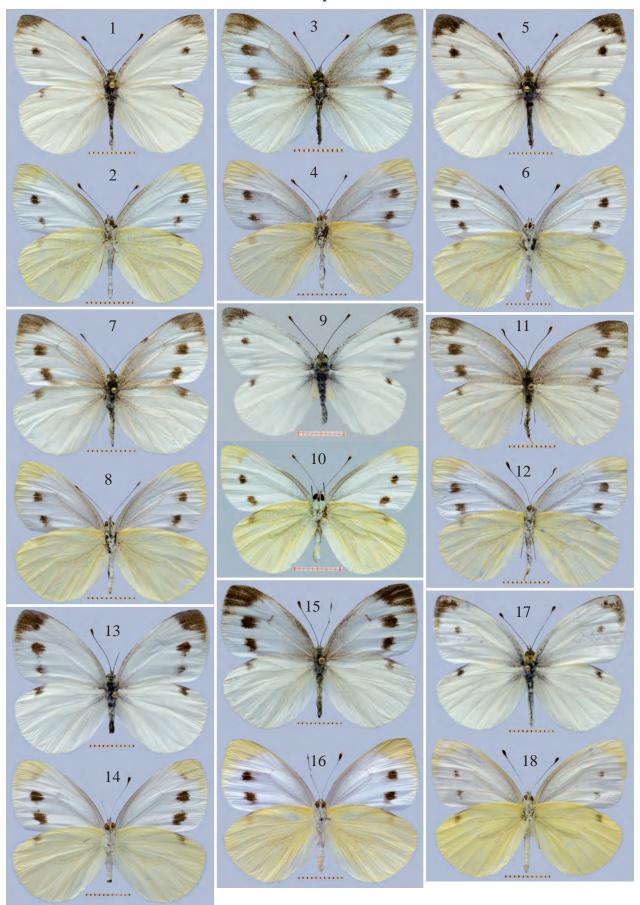


Fig. 1-12: *Pieris pseudorapae suffusa* Sheljuzhko, 1931 (Complete data see legend p. ??)
Fig. 1-4: ♂, ♀ ups and uns, gen. aest., UdSSR, Armenia, Cachkadzor. EMEM.
Fig. 5-8: ♂, ♀ ups and uns, gen. aest., Armenia, Khosrov Res., 2000 m. EMEM.
Fig. 9-12: ♂, ♀ ups and uns, gen. aest., Armenia, Aragatz mts., 2800 m.. EMEM.
Fig. 13-16: *Pieris pseudorapae mazandarana* Eitschberger, 1986, ♂, ♀ ups and uns, gen. aest., N-Iran, Pr. Mazandaran. EMEM.
Fig. 17, 18: Hybrid ♂, *P. napi* ♂ from Moscow City, 16.V.1997 x *P. pseudorapae suffusa* ♀, Nord Kaukasus. EMEM.

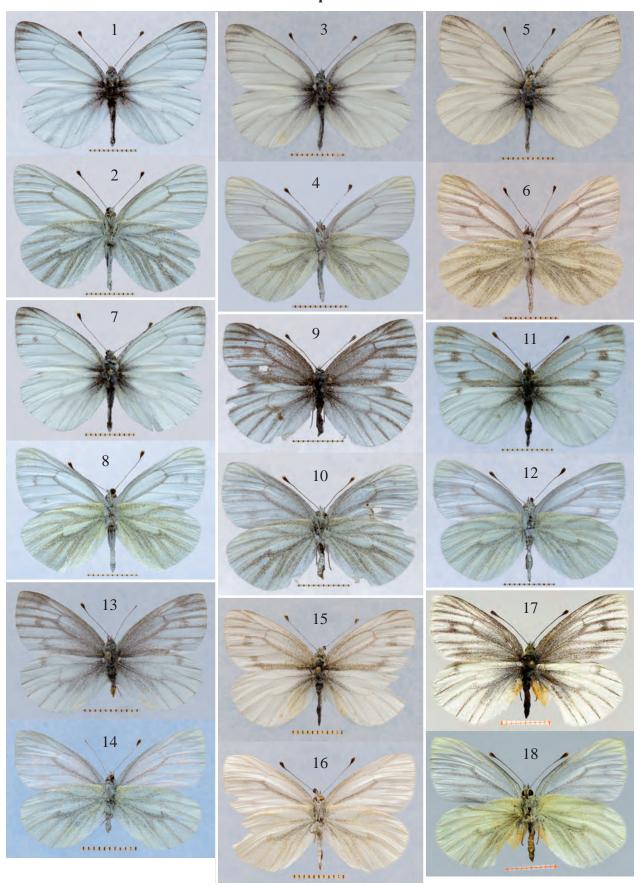


Fig. 1-14: *Pieris bowdeni* Eitschberger, 1983 (Complete data see legend p. ??)
Fig. 1, 2: , HT ♂ ups and uns, gen. vern., Türkei, Agri, Asagi Kent, 2200-2400 m. EMEM. Fig. 3, 4, 7, 8: PTs ♂♂, ups and uns, gen. vern., Türkei, Agri, Asagi Kent, 2200-2400 m. EMEM. Fig. 5, 6: PT ♂, ups and uns, gen. vern., Türkei, Erzurum, Palandöken Dag, 2800-3000 m. EMEM. Fig. 9-12, 15, 16: PTs ♀♀, ups and uns, gen. vern., Türkei, Agri, Asagi Kent, 2200-2400 m. EMEM. Fig. 13, 14: *Pieris bowdeni* Eitschberger, 1983, Paratypus ♀, ups and uns, gen. vern., /Türkei, Erzurum, Palandöken Dag, 2800-3000 m, 25.VII.[19]78, leg. Eckweiler//Paratypus ♂, *Pieris bowdeni* Eitschberger, 1982//GP 1624/. EMEM.
Fig. 17, 18: *Pieris belovi* spec. nov., PT♀, ups and uns, gen. vern., Transcaucasus, Armenia, Aragatz mts., 3200 m. EMEM.

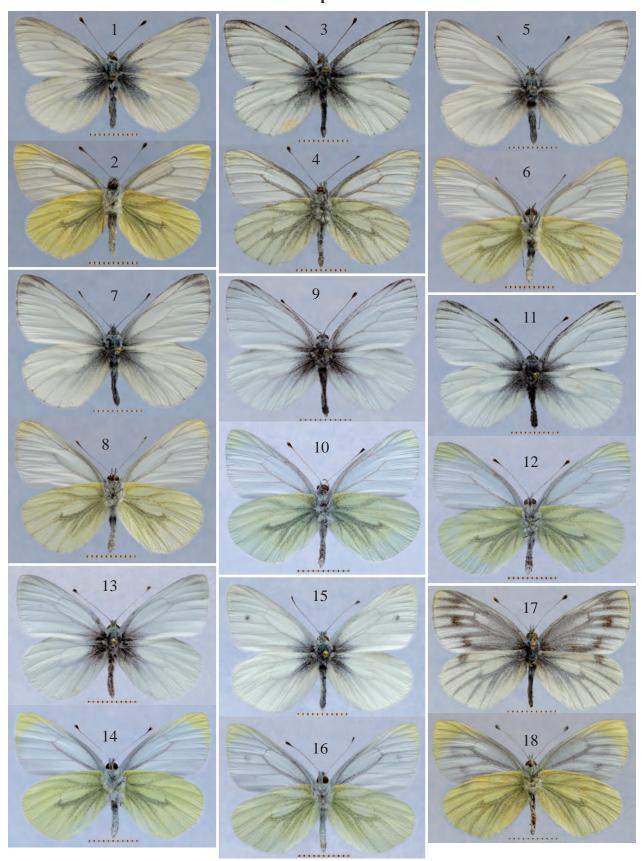


Fig. 1-18: *Pieris belovi* spec. nov. (Complete data see legend p. ??)
Fig. 1-4, 17, 18: (1, 2) HT ♂, (3, 4) PT ♂, (17, 18) AT ♀, ups and uns, gen. vern., Transcaucasus, Armenia, Aragatz mts.. EMEM.
Fig. 5-8: PTs ♂♂, ups and uns, gen. vern., Armenia, Aragatz mts., 3200 m, Alagez lake. EMEM.
Fig. 9-12: , PTs ♂♂, ups and uns, gen. vern., Armenia, Aragatz, 3000-3200 m. EMEM.
Fig. 13-16: PTs ♂♂, ups and uns, gen. vern., Armenia, Aragatz, Amberd valley 3400 m. EMEM.

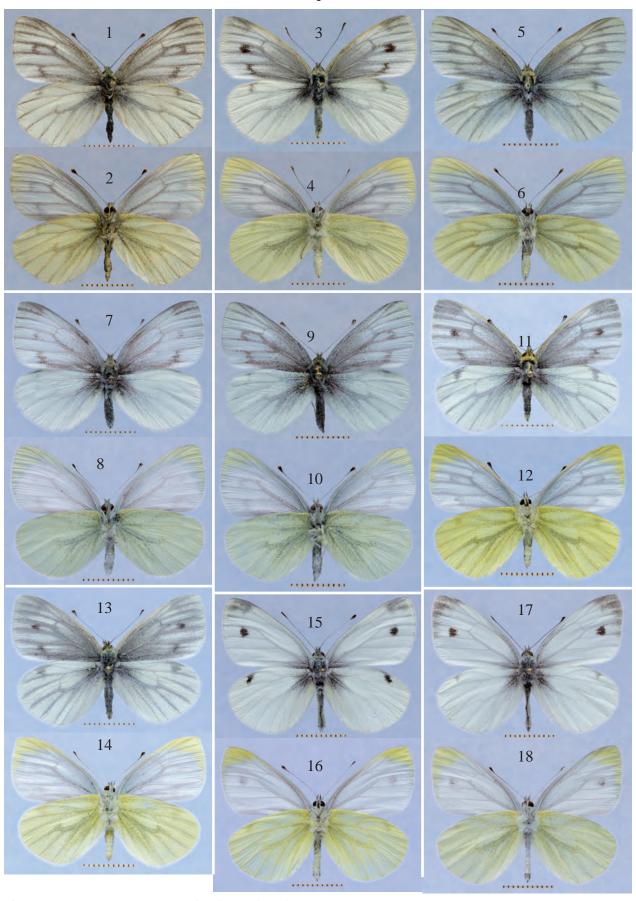
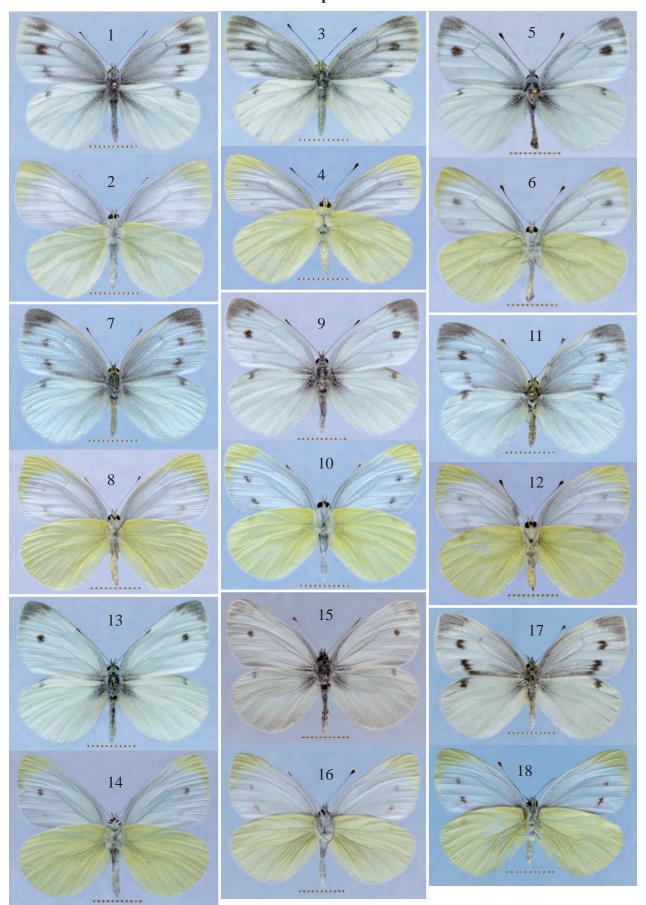


Fig. 1-18: *Pieris belovi* spec. nov. (Complete data see legend p. ??)
Fig. 1-6: PT ♀, ups and uns, gen. vern., Armenia, Aragatz mts., 3200 [3100] m, Alagez lake, 24.07.[19]96, DANTCHENKO leg. EMEM. Fig. 7-10: *Pieris belovi* spec. nov., PTs ♀, ups and uns, gen. vern., Armenia, Aragatz, 3000-3200 m. EMEM. Fig. 11-14: PTs ♀, ups and uns, gen. vern., Armenia, Aragatz, Amberd valley 3400 m. EMEM. Fig. 15-18: PTs ♂♂, ups and uns, gen. aest., Armenia, Aragatz, Amberd valley 3400 m. EMEM.



- Fig. 1-18: *Pieris belovi* spec. nov. (Complete data see legend p. ??)
 Fig. 1-4: PTs ♀, ups and uns, gen. aest., Armenia, Aragatz, Amberd valley 3400 m. EMEM.
 Fig. 5, 6: PT ♂, ups and uns, gen. aest., Armenia, Aragatz, 3200 m, Alagez lake. EMEM.
- Fig. 7-18: PT \, ord, ups and uns, gen. aest., Armenia, Aragatz, Amberd valley 3400 m. EMEM.

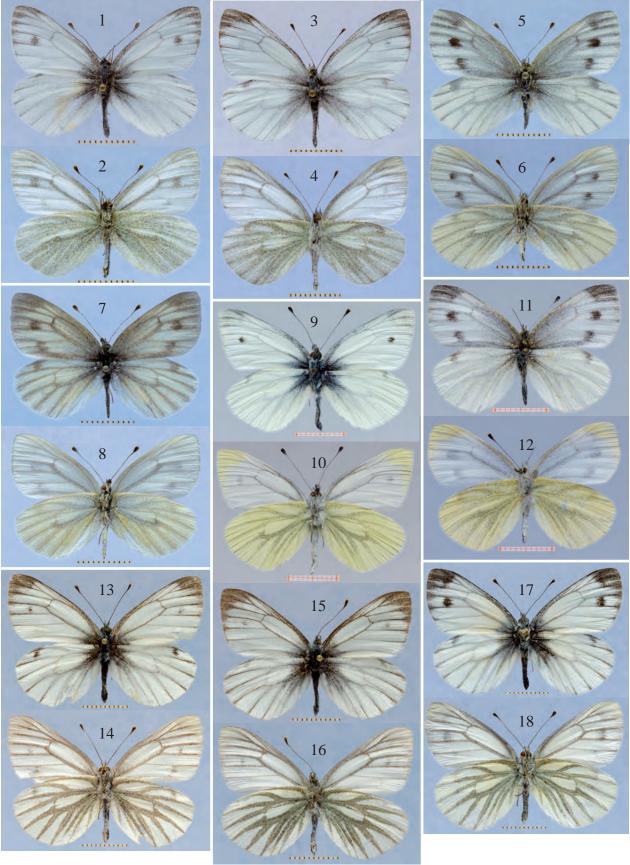


Fig. 1-8: Pieris bryoniae goergneri Eitschberger, 1985 Fig. 1, 2: , HT ♂, ups and uns, gen. vern., Türkei, Hakkari, Karandag-Osthang. EMEM. Fig. 3, 4: PPT ♂, ups and uns, gen. vern., Türkei, Hakkari, Bercelem yaylasi. EMEM. Fig. 5, 6: AT ♀, ups and uns, gen. vern., Türkei, Hakkari, Karandag-Osthang. EMEM. Fig. 7, 8: PT ♀, ups and uns, gen. vern., Türkei, Hakkari, Karandag-Osthang. EMEM. Fig. 9-12: Pieris pseudorapae suffusa Sheljuzhko, 1931, ♂, ♀ ups and uns, gen. vern., Armenia, Sevan lake. EMEM Fig. 13-18: Pieris bryoniae caucasica Lorkovic, 1968, ♂♂, ups and uns, gen. vern., (13, 14)Nord-Kaukasus, Uzunkol, (15, 16) USSR-Caucasus, Elbrus, (17, 18) Kaukasus, Dombai, Ulgen-Tal. EMEM. (Complete data see legend p. ??)

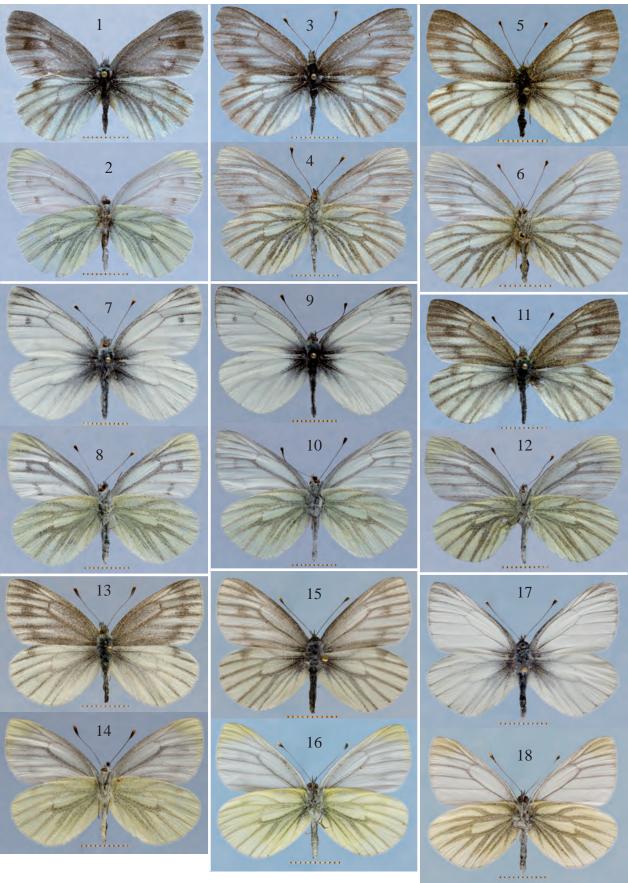


Fig. 1-18: *Pieris bryoniae caucasica* Lorkovic, 1968 (Complete data see legend p. ??)
Fig. 1, 2: ♀, ups and uns, gen. vern., U.S.S.R., W-Kaukasus, Momzyshka, (1700 m). EMEM.
Fig. 3, 4: ♀, ups and uns, gen. vern., Nordwestkaukasus, Teberda, 2000-2400 m. EMEM.
Fig. 5, 6: ♀, ups and uns, gen. vern., Kaukasus/SU, Mussa Atschitara See, 2800 m. EMEM.
Fig. 7-14: ♂♂, ♀♀, ups and uns, gen. vern., Georgia, 2500 m, Borzhomi region, Trialetzky range. EMEM.
Fig. 15-18: ♀, ♂, ups and uns, gen. vern., Transcaucasia, Georgia, 2100-2300 m, Bakurinai env. EMEM.

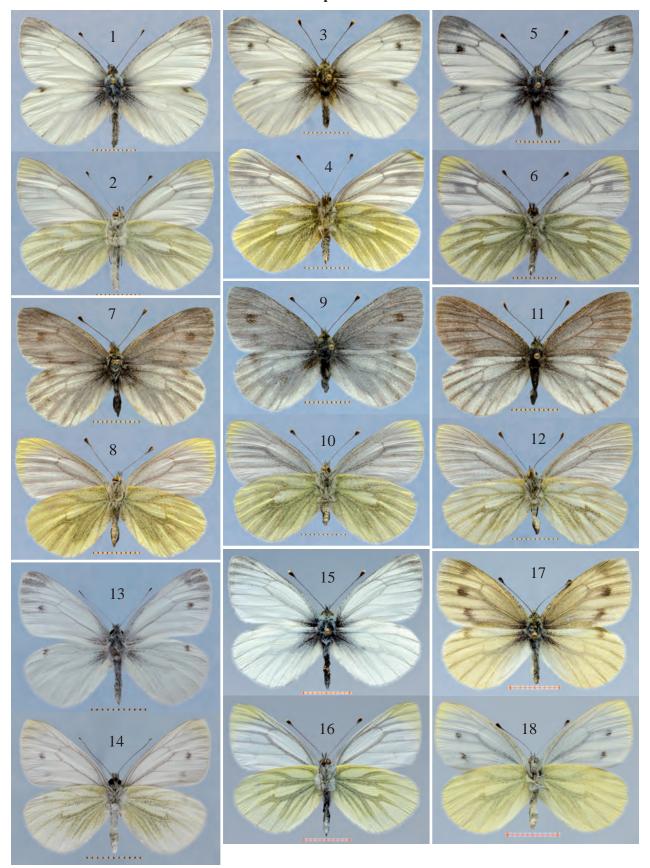


Fig. 1, 2: Pieris bryoniae turcica Eitschberger & Hesselbarth, 1977, &, ups and uns, gen. vern., Asia Minor, Türkei, NW-Anatolien, Prov. Bolu, Abant Gölü. EMEM.

Fig. 13, 14: *Pieris bryoniae caucasica* LORKOVIC, 1968, &, ups and uns, gen. aest., Georgia, Borzhoni vall., Tsra-Tskhara pass. EMEM. Fig. 15-18: *Pieris bryoniae caucasica* LORKOVIC, 1968, &&, Q, ups and uns, gen. vern., Transcaucasia, Georgia, 2100-2300 m, Bakurinai env., Tsra-Tskhara pass. EMEM. (Complete data see legend p. ??)

Fig. 3-12: Pieris bryoniae turcica Eitschberger & Hesselbarth, 1977, $2 \circlearrowleft \circlearrowleft$, $3 \circlearrowleft$, ups and uns, gen. vern., TR-Bolu, 12 km n Bolu, 1800 m NN, 11.6.[19]92, Hensle leg. EMEM.

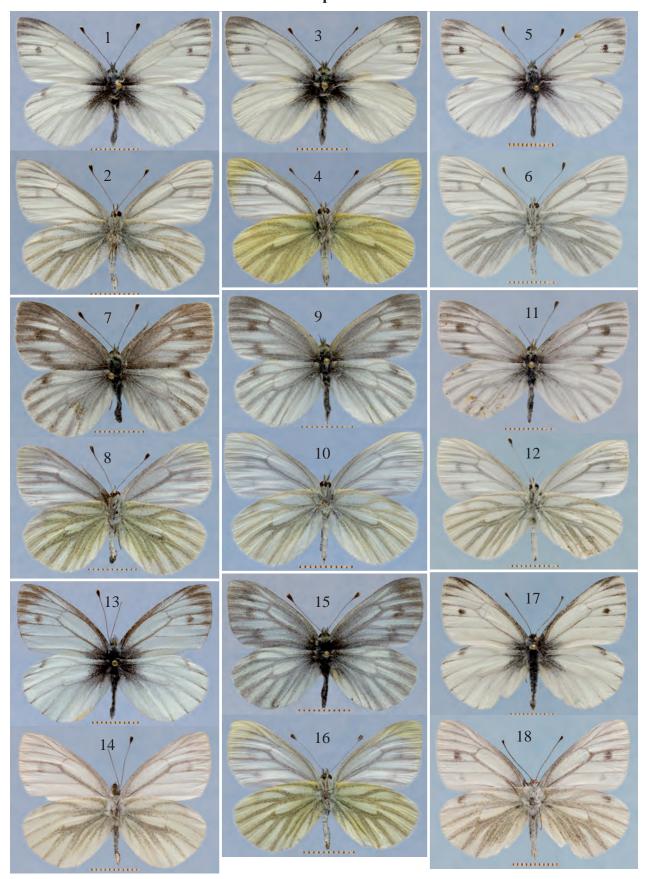


Fig. 1-18: Pieris bryoniae henslei subspec. nov. (Complete data see legend p. ??)

- Fig. 1, 2, 15, 16: , (1, 2) HT ♂, (15, 16) PT ♀, U.S.S.R., Armenia m., Zangezur Mt. distr., Megri-pass (2800 m). EMEM.
- Fig. 3-12: PTs 2 ♂♂, 2 ♀♀, (7, 8) AT ♀, Armenia m., Zangezur Mt. distr., Megri-pass (2800 m). EMEM. Fig. 13, 14: PT ♂, U.S.S.R., Armenia, Kafan distr., Chuztup mont., 2200 m, 26.VI.1982, GORBUNOV leg. EMEM.
- Fig. 17, 18: PT &, Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi riv., 18.-25.VII.1999, A. DANTCHENKO leg., EMEM, 24.XI.2012. EMEM.

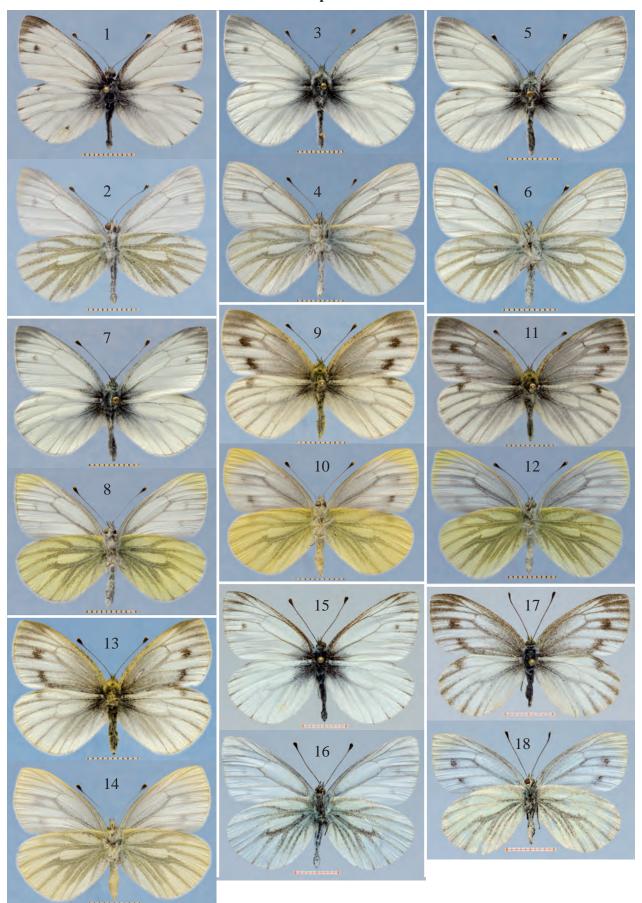


Fig. 1-18: Pieris bryoniae henslei subspec. nov. (Complete data see legend p. ??)

Fig. 1, 2: PT \circ , Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi riv. EMEM. Fig. 3-14: PTs 3 \circ \circ \circ , 3 \circ \circ , Armenia, South Zangezur, Kapan District, 3000 m, Kadzharan Akhtchi river. EMEM.

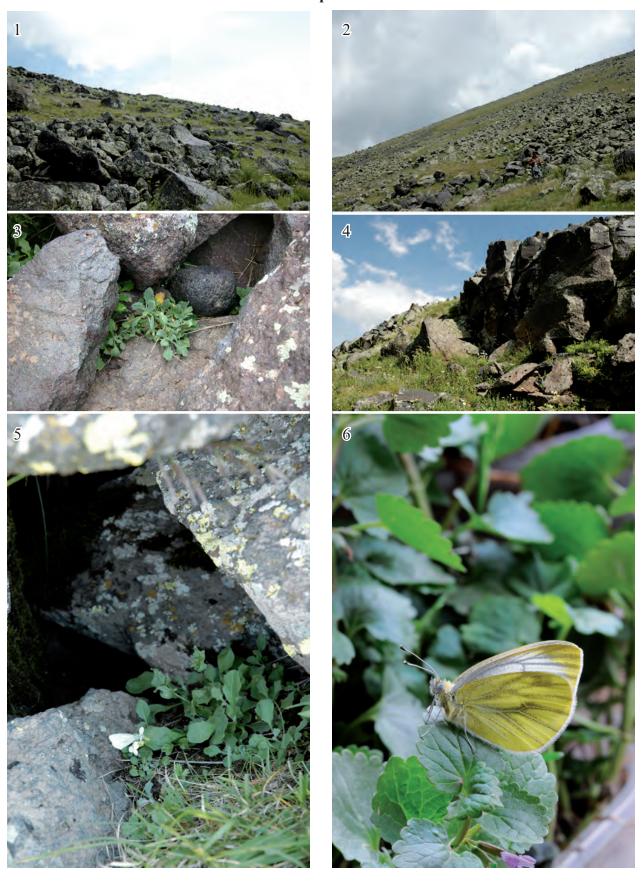
Fig. 15-18: *Pieris bryoniae henslei* subspec. nov., PTs ♂, ♀, Armenia, Zangezur range, Kadzharan vic., 2700 [2450] m. EMEM.

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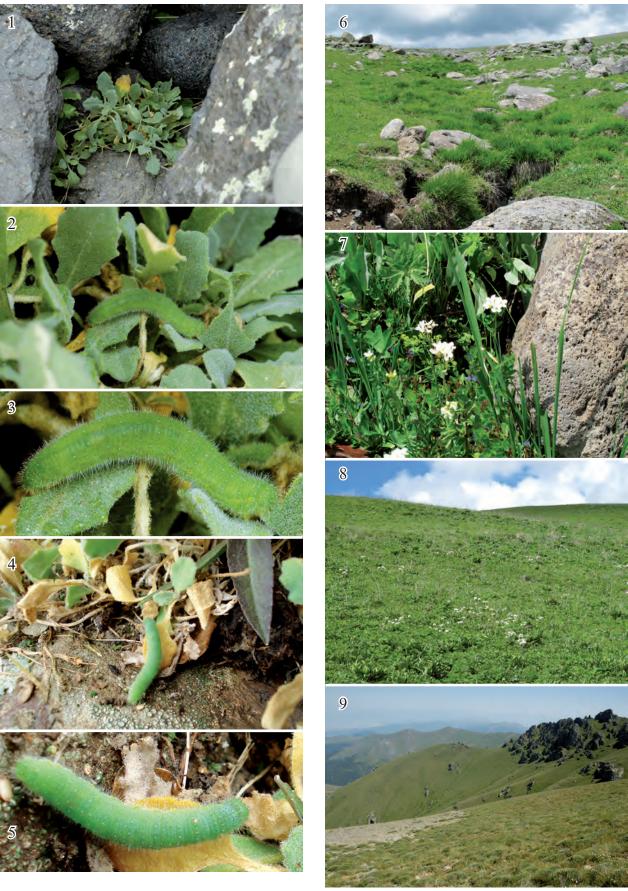


- Fig. 1: View on the Rhododendron belt ner the biotope of *Pieris bryoniae caucasica* Lorkovic, 1968, Georgia, Tskhratskaro Pass, 2400 m, 5.07.1999. Photo Danchenko.

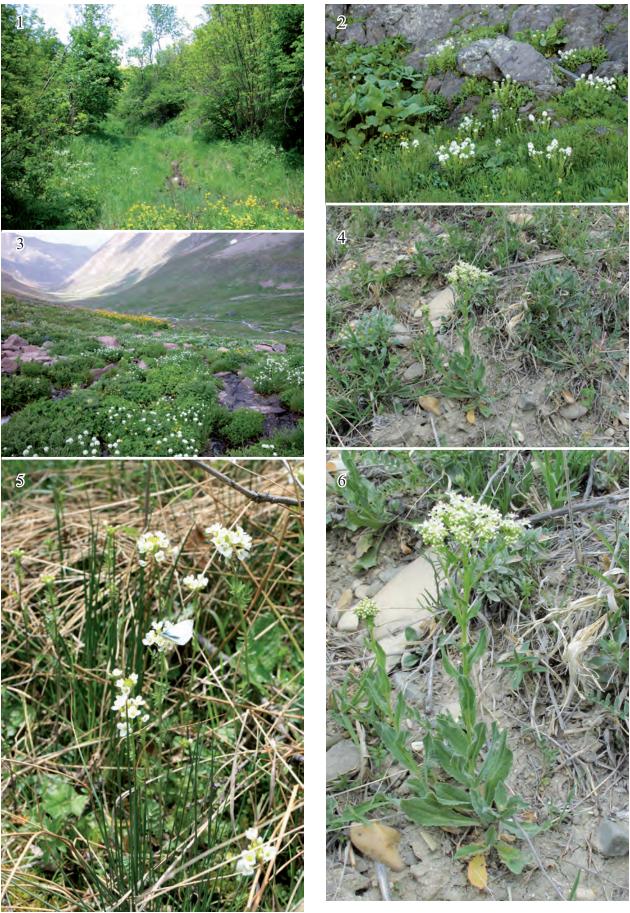
 Fig. 2, 3: *Pieris bryoniae caucasica* Lorkovic, 1968, (3) ♀, (4) ♂ nectaring on local Hesperis spec., near Georgia, Tskhratskaro Pass, 2200 m, 5.07.1999. Photo Danchenko.
- Fig. 4: Copula of *Pieris bryoniae caucasica* Lorkovic, 1968, in the biotope, Georgia, Tskhratskaro Pass, 2440 m, 5.07.1999. Photo Danchenko. Fig. 5: Foodplant of *Pieris belovi* spec. nov., Armenia, Aragatz, Amberd valley 3150 m. Fig. 6, 8: Edge of the biotope of *Pieris belovi* spec. nov., Armenia, Aragatz, Amberd valley 3150 m. Fig. 7: Biotope of *Pieris belovi* spec. nov., autumn aspect Armenia, Aragatz, Amberd valley 3150 m. All photos Danchenko.



- Fig. 1: Biotope of *Pieris belovi* spec. nov., summer aspect Armenia, Aragatz, Amberd valley 3150 m. Fig. 2: General fiew on the biotope of *Pieris belovi* spec. nov., autumn aspect Armenia, Aragatz, Amberd valley 3150 m. Fig. 3: Foodplant of *Pieris belovi* spec. nov. with three adult larvae, Armenia, Aragatz, Amberd valley 3150 m. Fig. 4: Prefered place of *Pieris belovi* spec. nov. in the biotope. Fig. 5: Nectaring ♂ of *Pieris belovi* spec. nov. on *Arabis caucasica*. Fig. 6: Resting ♀, bred in Moscow. All photos Danchenko.



- Fig. 1-5: Foodplant of *Pieris belovi* spec. nov. with larvae, Armenia, Aragatz, Amberd valley 3150 m.
 Fig. 6: Biotope of *Pieris bryonia* (?) *caucasica* Lorkovic, 1968, Armenia, Amasia region.
 Fig. 7: Foodplant (*Cardamines* spec.) of *Pieris bryonia* (?) *caucasica* Lorkovic, 1968, Armenia, Amasia region.
 Fig. 8: Biotope of *Pieris pseudorapae suffusa* Sheljuzhko, 1931, Armenia, Sevan lake.
 Fig. 9: General view on the biotope of *Pieris bryonia henslei* subspec. nov., Armenia, Khustup Mtn. All photos Danchenko.



- Fig. 1: Biotope of *Pieris pseudorapae suffusa* Sheljuzhko, 1931, Armenia, Aghavnadzor vic.
 Fig. 2, 3: Biotope of *Pieris bryonia henslei* subspec. nov., (2) Armenia, Khustup Mtn. (see also col. pl. 21: 9), (3) Armenia, Kazharan region.
 Fig. 4, 6: Foodplant of *Pieris pseudorapae suffusa* Sheljuzhko, 1931, Armenia, Dilizhan vic.
 Fig. 5: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, 3' nectaring on *Cardamine* spec., Armenia, Aghavnadzor vic.

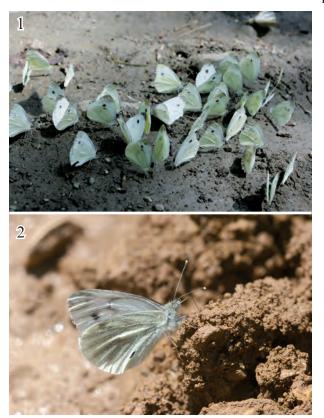




Fig. 1: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, gen. aest., mud puddling, Armenia Acharkhut vic. Fig. 1-6: Photos Danchenko. Fig. 2: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, σ , Armenia, Kotayk, ca. 37 km N Yerevan, Aghveran, 40°31′09"N 44°33′47"E, 1800-2200 m, 16.06.2011. Photo Grieshuber. Fig. 3: *Pieris pseudorapae suffusa* Sheljuzhko, 1931, σ gen. vern., Armenia, Tavush vic., May 2012.